

MD 147 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

CONSTRUCTION DETAILS

- REMOVE EXISTING PEDESTAL POLE, PEDESTRIAN SIGNAL HEADS, PUSHBUTTONS, SIGNS, AND FOUNDATION 12" BELOW GROUND GRADE AND BACKFILL.
- INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE, LED COUNTDOWN SIGNAL HEADS, APS STATION, AND PEDESTRIAN EDUCATION SIGN. (NOTE: 1-3 IN. PVC SCHEDULE 80 CONDUIT BENDS).
- INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE, LED COUNTDOWN SIGNAL HEADS, APS STATION, AND PEDESTRIAN EDUCATION SIGN. (NOTE: 1-3 IN. PVC SCHEDULE 80 CONDUIT BENDS). REMOVE EXISTING SIGN NO. 29 FROM EXISTING PEDESTAL POLE (TO BE REMOVED) AND REINSTALL ON PROPOSED PEDESTAL POLE.
- INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED PRIOR TO FINAL SIDEWALK POUR.
- REMOVE EXISTING PUSHBUTTON, SIGNS, AND PEDESTRIAN SIGNAL HEAD FROM EXISTING SIGNAL POLE.
- USE EXISTING CONDUIT.
- USE EXISTING CONTROLLER CABINET.
- USE EXISTING HANDHOLE.
- INSTALL 12" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS.
- INSTALL 24" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS.
- INSTALL CONCRETE FOUNDATION WITH 10 FT. (CUT TO 5 FT.) STEEL PEDESTAL POLE WITH BREAKAWAY BASE, APS STATION, AND PEDESTRIAN EDUCATION SIGN. (NOTE: 1-3 IN. PVC SCHEDULE 80 CONDUIT BENDS).
- REMOVE EXISTING PUSHBUTTON, SIGNS, AND PEDESTRIAN SIGNAL HEAD FROM EXISTING SIGNAL POLE. INSTALL LED COUNTDOWN SIGNAL HEADS FOR BOTH CROSSINGS.
- REMOVE EXISTING PUSHBUTTON, SIGNS, AND PEDESTRIAN SIGNAL HEAD FROM EXISTING SIGNAL POLE. INSTALL LED COUNTDOWN SIGNAL HEADS FOR BOTH CROSSINGS. INSTALL APS STATION AND PEDESTRIAN EDUCATION SIGN FOR HARFORD ROAD CROSSING.
- REMOVE EXISTING R10-12 SIGN FROM EXISTING MAST ARM.

EXISTING SIGNS TO REMAIN

24, 28, 30, 35
Harford RD
D3(1)
DUAL FACED
16" X VAR
36, 37, 38, 39
Joppa RD
D3(1)
DUAL FACED
16" X VAR

25
SOUTH
147
SHIELD
ASSEMBLY
30" X 51"

26
NORTH
147
SHIELD
ASSEMBLY
48" X 75"

27, 33, 34
ONLY
R3-5L
30" X 36"

29
OVER 3/4 T
8PM-7AM
HERE TO
BELAIR
ROAD

31
NORTH
147
SHIELD
ASSEMBLY
30" X 51"

32
SOUTH
147
SHIELD
ASSEMBLY
48" X 75"

EXISTING SIGNALS

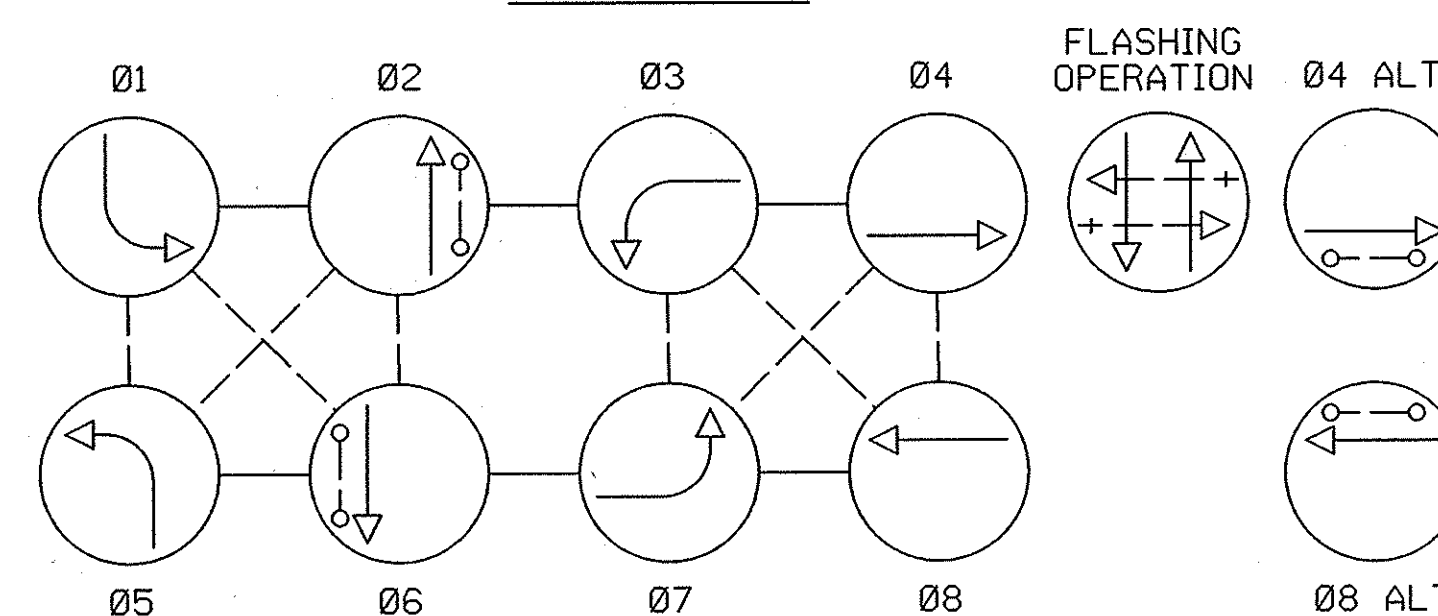
1, 2, 5, 6
R
Y
G

9, 12
R
Y
G

3, 4, 7, 8, 11, 14
R
Y
G

10, 13
R
Y
G

NEMA PHASING



NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

PROPOSED EQUIPMENT

15-22
16" LED
COUNTDOWN
PEDESTRIAN
SIGNAL

40, 43
R10-3(1) 9" X 15"
APS 5" X 7"

41, 42
R10-3(1) 9" X 15"
APS 5" X 7"

44, 47
R10-3(1) 9" X 15"
APS 5" X 7"

45, 46
R10-3(1) 9" X 15"
APS 5" X 7"

NOTE:
SEE DIMENSION DIAGRAM ON GENERAL INFORMATION SHEET FOR POLE AND PEDESTAL POLE DIMENSIONS.

SPECIAL NOTES:

- AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON # 40 AND 43 TO BE INSTALLED WITH VIBRATING ARROW POINTING LEFT WITH R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS JOPPA ROAD")
- AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON # 41 AND 42 TO BE INSTALLED WITH VIBRATING ARROW POINTING RIGHT WITH R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS JOPPA ROAD")
- AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON # 44 AND 47 TO BE INSTALLED WITH VIBRATING ARROW POINTING RIGHT WITH R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS HARFORD ROAD")
- AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON # 45 AND 46 TO BE INSTALLED WITH VIBRATING ARROW POINTING LEFT WITH R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS HARFORD ROAD")

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- ALL UNUSED SIGNAL CABLES SHALL BE REMOVED AND DISPOSED.
- THE TACTILE ARROW FOR THE AUDIBLE PEDESTRIAN SIGNAL PUSHBUTTONS SHALL BE LOCATED PARALLEL TO THE CROSSWALK FOR WHICH THEY APPLY.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SIGNAL OPERATION DURING THE COMPLETE CONSTRUCTION PERIOD.

UTILITY LEGEND

SD SD STORM DRAIN
G G GAS MAIN
W W WATER MAIN
S S SEWER MAIN
E E ELECTRIC CABLES
A A AERIAL CABLES
T T TELEPHONE CABLES
F F FIBER-OPTIC



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STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 147 HARFORD ROAD AND
JOPPA ROAD

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE 7/19/82 CONTRACT NO. BA 181S176

DESIGNED BY COUNTY BALTIMORE

DRAWN BY L. PARKER LOGMIS. NO. 03014701.98

CHECKED BY K. KLETT T.J.M.S. NO.

F.A.P. NO. TOD NO.

DRAWING NO. SG-2.11 OF 2.12 SHEET NO. 245 OF 291

APPROVALS		REVISIONS	
TEAM LEADER	ORIGINAL ON FILE	C	SHA NO. BA6835184 ADDENDUM NUMBER 5 12/12/06
ASST. DIV. CHIEF		JRL	AJM PAT 6/3/89
DIVISION CHIEF		B	RECONSTRUCTED DUE TO GEOMETRIC WIDENING 8/16/95
OFFICE DIRECTOR		A	ADD EP LEFT TURN SIGNALS FOR NORTH AND SOUTHBOUND MD 187 8/16/95
		WLK	GMJ

PLOTTED: 08-06-2008
FILE: n:\s1558-160\cad1\12_modification\psg-P011_M07.dgn